

IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Change to:

1 - 124. (cancelled without prejudice)

125. (currently amended) A ~~computer-implemented~~ predictive model method, comprising:

using a computer to complete the steps of:

receiving first input data into a plurality of different types of initial predictive models to develop an initial model configuration ~~by~~ for each type of model and then selecting an input data set from the plurality of predictive models using a stepwise regression algorithm after a training of each predictive model type is completed;

receiving the input data set ~~from said initial model configuration~~ and a second input data as inputs into a second, induction model stage to ~~develop~~ transform said input data into an improvement to said initial model configuration as an output, said second input data comprising one of said first input data, data not included in said first input data, and a combination thereof; and

receiving said second model stage output as an input into a third predictive model stage to develop and output a final predictive model

where all the input data represents a physical object or substance, and

where said final predictive model supports a regression analysis.

126. (currently amended) The method of claim 125, wherein said second, induction model stage comprises an induction algorithm that receives a the second input data and ~~an~~ the input data set from the initial model configuration and transforms said inputs into a summary comprising a the second model stage model output.

127. (currently amended) The method of claim 125, wherein ~~an~~ the input data set from said initial model configuration comprises the input data to said initial model configuration after the training and a model selection has been is completed.

128. (currently amended) The method of claim 125, further comprising: using a plurality of independent subpopulations to evolve a plurality of candidate predictive models with a plurality of genetic algorithms to identify a set of one or more changes that will optimize a the final

predictive model output value for a single criteria or multiple criteria.

129. (currently amended) The method of claim 125, wherein ~~an~~ the types of initial predictive models are ~~is~~ selected from the group consisting of CART; projection pursuit regression; generalized additive model (GAM), redundant regression network; boosted Naïve Bayes Regression; MARS; linear regression; and stepwise regression.

130. (currently amended) The method of claim ~~126~~ 125, wherein ~~an~~ the induction algorithm ~~model~~ is selected from the group consisting of entropy minimization, LaGrange, Bayesian and path analysis.

131. (currently amended) The method of claim 125, wherein ~~a~~ the use of a tournament to select ~~a~~ the predictive model type eliminates a need for multiple processing stages.

132. (previously presented) The method of claim 125, wherein the final predictive model comprises a transform predictive model.

133. (currently amended) An apparatus to perform a predictive model method, said apparatus comprising:

means for receiving, processing and storing data;

means for completing the three stage predictive model method of claim 125, and

a graphical user interface to allow a user to identify one or more data sources for said predictive modeling method, ~~and to at least one of display, print, and save to one of a printer, a data file, and an application program using the output resulting from the final, third stage model~~

where said final predictive model supports a regression analysis.

134. (currently amended) The apparatus of claim 133, wherein said second, induction model stage comprises an induction algorithm that receives a the second input data and ~~an~~ the input data set from the initial model configuration and transforms said inputs into a summary comprising a the second model stage ~~model~~ output.

135. (currently amended) The apparatus of claim 133, wherein ~~an~~ the input data set from said initial model configuration comprises the input data to said initial model configuration after the training and ~~a~~ model selection has been ~~is~~ completed.

136. (currently amended) The apparatus of claim 133, further comprising: using a plurality of independent subpopulations to evolve a plurality of candidate predictive models with a plurality of genetic algorithms to identify a set of one or more changes that will optimize a the final predictive model output value for a single criteria or multiple criteria.

137. (currently amended) The apparatus of claim 133, wherein ~~an~~ the types of initial predictive models are is selected from the group consisting of CART; projection pursuit regression; generalized additive model (GAM), redundant regression network; boosted Naïve Bayes Regression; MARS; linear regression; and stepwise regression.

138. (currently amended) The apparatus of claim ~~134~~ 133, wherein ~~an~~ the induction algorithm model is selected from the group consisting of entropy minimization, LaGrange, Bayesian and path analysis.

139. (currently amended) The apparatus of claim 133, wherein the use of a tournament to select a the predictive model type eliminates a need for multiple processing stages.

140. (currently amended) A non-transitory, machine-readable medium tangibly embodying a program of machine-readable instructions executable by a digital processing apparatus to perform a predictive model method, comprising:

receiving first input data into a plurality of different types of initial predictive models to develop an initial model configuration ~~by for each type of model and then~~ selecting an input data set from the plurality of predictive models using a stepwise regression algorithm after a training of each predictive model type is completed;

receiving the input data set ~~from said initial model configuration~~ as an input into a second, induction model stage to ~~develop~~ transform said input data into an improvement to said initial model configuration as an output; and

receiving said second model stage output as an input into a third predictive model stage to develop and output a final predictive model

where said final predictive model supports a regression analysis.

141. (currently amended) The machine readable medium of claim 140, wherein said second, induction model stage comprises an induction algorithm that receives a the second input data

and ~~an~~ the input data set from the initial model configuration and transforms said inputs into a summary comprising a the second model stage model output.

142. (currently amended) The machine readable medium of claim 140, wherein ~~an~~ the input data set from said initial model configuration comprises the input data to said initial model configuration after the training and a model selection has been is completed.

143. (currently amended) The machine readable medium of claim 140, further comprising: using a plurality of independent subpopulations to evolve a plurality of candidate predictive models with a plurality of genetic algorithms to identify a set of one or more changes that will optimize a the final predictive model output value for a single criteria or multiple criteria.

144. (currently amended) The machine readable medium of claim 140, wherein ~~an~~ the types of initial predictive models are is selected from the group consisting of CART; projection pursuit regression; generalized additive model (GAM), redundant regression network; boosted Naïve Bayes Regression; MARS; linear regression; and stepwise regression.

145. (currently amended) The machine readable medium of claim ~~141~~ 140, wherein ~~an~~ the induction algorithm model is selected from the group consisting of entropy minimization, LaGrange, Bayesian and path analysis.

146. (currently amended) The machine readable medium of claim 140, wherein the use of a tournament to select a the predictive model type eliminates a need for multiple processing stages.

147. (currently amended) The machine readable medium of claim 140, wherein all the input data represents a physical object or substance ~~the machine-readable medium comprises a plurality of intelligent agents.~~

148. (currently amended) A computing infrastructure, comprising the machine-readable medium ~~code~~ of claim 140 integrated into the computing apparatus of claim 133, wherein the medium ~~code~~ in combination with the apparatus is capable of performing the method of claim 125.

149. (currently amended) The computing infrastructure of claim 148, wherein a second model

stage transforms one or more data inputs into a summary for use in a the final model.

150. (previously presented) The computing infrastructure of claim 148 that is capable of performing the method of claim 138.